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GacsKurdyumov -Levin (GKL) binary-state CA on two **random** initial configurations of different densities of
in one of k states. We denote the lattice size or **number** of cells as N .A CA has a single fixed rule used
ftp.santafe.edu/pub/mm/rev-edge.ps.Z

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Genomic Regulation Modeled As A Network With Basins Of Attraction - Wuensche (1998) (Correct) (22 citations)
discrete dynamical networks. An example are **cellular automata**, a powerful yet simple class of network,
of idealized models 1213 in particular "**random** Boolean networks"Cell types have been explained
element may have a different wiring, rule and **number** of input wires k. The system is iterated. cell.
www.santafe.edu/~wuensch/h_att4.ps.gz

Evolution of Intricate Long-Distance Communication Signals in .. - Andre, III, al. (1996) (Correct) (14 citations)
Long-Distance Communication Signals in **Cellular Automata** Using Genetic Programming David Andre
space. 2. Automatic Programming of **Cellular Automata Cellular automata** are an abstract way of studying
for automatic programming of **cellular automata random**izers (Koza 1992)3. The Majority
www.genetic-programming.com/alife-gkl-96.ps

Coevolving Cellular Automata: Be Aware of the Red Queen! - Paredis (1997) (Correct) (13 citations)
(ed.Morgan Kaufmann Publishers. Coevolving **Cellular Automata**: Be Aware of the Red Queen! Jan Paredis
of 320. Furthermore, they initialize the CAs **random**ly without bias, i.e. each bit has an equal chance
sorting network architectures and sets of lists of **numbers** on which the sorting networks are tested. In

saturn.matriks.unimaas.nl/CE/paredis/ICGA97.ps

Evolving Cellular Automata with Genetic Algorithms: A.. - Mitchell, Crutchfield, .. (1996) (Correct) (8 citations)
Evolving **Cellular Automata** with Genetic Algorithms: A Review of Recent
genetic programming to evolve CAs for simple **random-number** generation. Our work builds on that of
programming to evolve CAs for simple **random-number** generation. Our work builds on that of Packard
www.santafe.edu/~evca/evca-review.ps

Four Problems for which a Computer Program Evolved by Genetic.. - Koza (1996) (Correct) (8 citations)
examples of problems (from the fields of **cellular automata** and molecular biology) in which genetic
programming starts with a primordial ooze of **random**ly generated computer programs composed of the
The topology of a circuit consists of the **number** of components in the circuit, the type of each
www.genetic-programming.com/icec-96.ps

Time Out of Joint: Attractors in Asynchronous Random Boolean .. - Harvey, Bossomaier (1997) (Correct) (7 citations)
interconnect and interact in large **numbers**. **Cellular automata** (CAs) and **Random** Boolean Networks (RBNs)
Time Out of Joint: Attractors in Asynchronous **Random** Boolean Networks Inman Harvey 1 and Terry
phenomena and simplify into systems with a small **number** of concepts. Complex behaviour can be generated
ftp.cogs.susx.ac.uk/pub/ecal97/online/F164.ps.gz

A Classification of Long-Term Evolutionary Dynamics - Bedau, Snyder, Packard (1998) (Correct) (6 citations)
familiar, with Wolfram 's classification of **cellular automata** rules being one well-known example (Wolfram
in Holland's Echo model (Holland 1992)in a **random**-selection adaptivelyneutral "shadow" of Echo, and
the system's diversity, D(t)which is simply the **number** of components present at time t, D(t) fi :a i
www.inet.gda.pl/ai/www.santafe.edu/sfi/publications/Working-Papers/98-03-025.ps

Non-Uniform Cellular Automata: Evolution in Rule Space and.. - Moshe Sipper (1994) (Correct) (4 citations)
copyright The MIT Press 1994. Non-Uniform **Cellular Automata**: Evolution in Rule Space and Formation of
is on evolution in rule space starting from a **random** gene pool, i.e. rule population. The second model
each cell obeys the same rule and has a finite **number** of states. In this paper we study non-uniform

lslsun5.epfl.ch/~moshes/alife4.ps.gz

Discovery of Self-Replicating Structures Using A Genetic.. - Lohn, Reggia (1995) (Correct) (3 citations)
Life. Most of this work is based on **cellular automata** (CA)a model first used by von Neumann to
results in all automata being destroyed, and the **random** winner policy which **random**ly selects one automata
for example, with N =4, A =fA, B, C, Dg. The **number** of automatons of type a in a simulation at a
ftp.cs.umd.edu/pub/complex/icec95_paper.ps.gz

Tight bounds on periodic cell configurations in Life - Buckingham, Callahan (1997) (Correct) (3 citations)
configurations, or oscillators, occur in many **cellular automata** (CA)In an oscillator, repeated
low-period oscillators arising repeatedly from **random** initial states. There is no obvious connection
the period of an oscillator to be the smallest **number** of rule applications needed to restore it to its
condor.cs.jhu.edu/pub/paultmp/osc.ps.gz

Generating Parallel Random Number Generators By Cellular.. - Sipper, al. (1996) (Correct) (3 citations)
a difficult task. In this paper non-uniform **cellular automata** (CA) are studied, presenting the cellular
Scientific Publishing Company Generating Parallel **Random Number** Generators By Cellular Programming Moshe
Publishing Company Generating Parallel **Random Number** Generators By Cellular Programming Moshe Sipper
lslwww.epfl.ch/~marco/carand_ijmpc.ps

Evolutionary Automata - Shanahan (1994) (Correct) (3 citations)
are based on abstract automata, in particular **cellular automata** [Packard, 1988]Langton, 1990]and
within a computational medium. The organisms move **random**ly around a microworld, eat, reproduce asexually
artificial (for example, Ray, 1990]Second, a **number** of computer experiments have been conducted which
www-lp.doc.ic.ac.uk/_lp/Shanahan/evol_aut.ps.Z

Partially Permutive Cellular Automata - Kari Eloranta (1993) (Correct) (3 citations)
8/1993 Partially permutive **cellular automata** Kari Eloranta Institute of Mathematics
the interaction of subalphabets can generate **random** walks as well as their degenerate forms. A
estimates for quantities like entropy. Since a **number** of **cellular automata** c.a. from this on) also
dopey.hut.fi/~kve/tiles/nont.ps.gz

Dynamic Load-balancing Strategies for Data Parallel.. - Mark Smith (1993) (Correct) (3 citations)
such as molecular dynamics, lattice gas **cellular automata** and cosmological modelling is to perform a
each species can be successively adapted through **random** mutation. If these implementations are then
simulations. Thus details are given of a **number** of dynamic load-balancing strategies to counter
ftp.epcc.ed.ac.uk/pub/tr/93/tr9302.ps.Z

Implicit Test Pattern Generation Constrained to Cellular.. - Fummi, Sciuto (1997) (Correct) (2 citations)
Test Pattern Generation Constrained to **Cellular Automata** Embedding F.Fummi D.Sciuto Dip. di
at the beginning for the generation of pseudo-**random** test patterns [10] then for embedding
considered as combinational thus decreasing the **number** of physical defects which can be identified by
ipeca4.elet.polimi.it/pub/paper/fs97b.ps.gz

Application Of Time Warp To Parallel Simulations With.. - Overeinder, Sloot (1993) (Correct) (2 citations)
To Parallel Simulations With Asynchronous **Cellular Automata** B. J. Overeinder And P. M. A. Sloot
and can occur asynchronously and at unpredictable **random** times. State changes with these characteristics
of cells. Each cell is provided with a finite **number** of states and evolves in time according to well
www.wins.uva.nl/research/pscs/papers/../papers/archive/Overeinder93_1.ps.gz

Log Time Parsing on the MasPar MP-1 - Randall Helzerman (1992) (Correct) (2 citations)
For example, Kosaraju's method [6] using **cellular automata** can parse CFGs in O(n) time using O(n 2
of O(log 2 n)using a CREW P-RAM (Parallel **Random** Access Machine) model, but requires O(n 6
in O(k) time for a CRCW P-RAM, where n is the **number** of words in the sentence and k, the **number** of
transform.ecn.purdue.edu/pub/speech/papers/icpp92.ps.Z

CAM-Brain: A New Model for ATR's Cellular Automata Based.. - Gers, de Garis (1996) (Correct) (2 citations)
CAM-Brain: A New Model for ATR's **Cellular Automata** Based Artificial Brain Project Felix Gers
Algorithms, Genetic Encoding, **Cellular Automata, Cellular Automata** Machine (CAM-8)Evolvable
To each grown neuron a "chromosome" block of **random** growth instrucSingle Cell 'Seeds' for the Neuron

www.idsia.ch/~felix/./CAMBrain-Old-New-Model.ps.gz

Classifying Cellular Automata Automatically - Wuensche (1998) (Correct) (2 citations)
Classifying **Cellular Automata** Automatically Andy Wuensche Santa Fe
family of k=5 rules (shown in hex) from the same **random** initial state, n=150. Time proceeds from the top
from left to right[10]The outputs make a binary **number** with (2 2 k bits, given in hex, or decimal
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CA with interacting gliders. 308 time-steps from a **random** initial state. System size n=700, Neighbourhood
[3]Glider dynamics can be seen from an **number** of overlapping perspectives: Wolfram's complex
www.santafe.edu/~wuensch/cplex.ps.gz

Toward the Realization of an Evolving Ecosystem on Cellular.. - Sayama (1999) (Correct) (1 citation)
the Realization of an Evolving Ecosystem on **Cellular Automata** Hiroki Sayama Department of Information
diagram of this device. It generates **random** signal sequences filled with a mixture of a
2: Temporal development of the diversity (the **number** of species) of evoloops in several cases with
proton.is.s.u-tokyo.ac.jp/pub/paper/sayamaAROB99.ps.gz

Stream Ciphers - Robshaw (1995) (Correct) (1 citation)
: 28 7.5.2 **Cellular automata** :29
:28 7.5.1 **Random**ized ciphers :
:25 7.3 **Number**-theoretic techniques :
www.rsa.com/rsalabs/pubs/techreports/tr-701.ps.gz

No Two-State CA for Density Classification Exists - Land, Belew (1994) (Correct)
attempts to evolve one-dimensional two-state **cellular automata** which classify binary strings according to
as good as GKL. Solutions were tested by picking **random** initial configurations with a uniform
powerful class of algorithmic specifications. A **number** of investigations into the relationship between
www-cse.ucsd.edu/users/mland/ca_tech.ps

Evaluating Parallel Random Number Generators - William Mahoney (Correct)
lagged Fibonacci, shift register, and **cellular automata**. 2.1 Multiplicative Linear Congruential
Evaluating Parallel **Random Number** Generators William E. Mahoney y Paul
Evaluating Parallel **Random Number** Generators William E. Mahoney y Paul D.
ftp.npac.syr.edu/pub/projects/reu/reu93/papers/Mahoney.ps.Z

Exact solutions for a mean-field Abelian sandpile - Janowsky, Laberge (1993) (Correct)
interest in the study of certain class of **cellular automata** models now commonly known as "sandpiles"
Ng. We drop a grain of sand on a site i chosen at **random**, thereby increasing its height by one: h(i)
in general. Unfortunately, even though the **number** of models (i.e. sets of dynamical rules)
rene.ma.utexas.edu/mp_arc/c/93/93-176.ps.gz

A new version of Toom's proof - Gács (1995) (Correct)
modulo the potentially infinite modulus m. **Cellular automata** in other dimensions are defined similarly.
Partially supported by NSF grant CCR-9204284 A **random** evolution is a pair (j) where is a measure
if n nodes of Expl belong to Noise 0 then the **number** of edges of Expl is at most 4n \Gamma 4. This
www.cs.bu.edu/ftp/gacs/papers/toom-proof.ps.Z

Periodicity and Transport from Round-Off Errors - Vivaldi (Correct)
[Karney 1983]to represent maps as **cellular automata** [Kaneko 1988]and to construct numerically
evidence that the limiting behaviour is a **random** walk where the step size is modulated by a
which can be effectively represented as algebraic **numbers** in the field generated over the rationals by the
www.expmath.com/restricted/3/3.4/vivaldi.ps.gz

Random Walks in Cellular Automata - Kari Eloranta (1993) (Correct)
8/1993 **Random** walks in **cellular automata** Kari Eloranta Institute of Mathematics
8/1993 **Random** walks in **cellular automata** Kari Eloranta
defects or phase boundaries discerned in a **number** of one-dimensional **cellular automata** appear to
dopey.hut.fi/~kve/walks/nonw.ps.gz

Emergent Computation in Cellular Automata - Rajarshi Das (1998) (Correct)
Emergent Computation in **Cellular Automata** Rajarshi Das Center for Nonlinear Studies,
0 Site 0 148 Figure 1: A space-time diagram for a **random**ly generated r =3 binary-state cellular
CAs for the task above is difficult for a **number** of reasons. First, the **number** of possible CAs
cnls.lanl.gov/Highlights/1998-10/October_98.ps.gz

Landau Theory of Social Clustering - Dariusz Plewczy'nski (Correct)
framework for these class of probabilistic **cellular automata** (4]5]6]7]models was proposed by
standard theory of ferromagnet. 2. Disorder and **random** "strength" parameters. Each individual is
clusters behavior in the stationary limit. PACS **number**: 64.60.My, 74.20.De, 31.15.Bs, 12.40.Ee 1

www.ichf.edu.pl/~darman/Science/social.ps

The Cells Start Walking: Moving Objects in CDL++ - Hochberger, Hoffmann.. (Correct)
a two-phased CDL program. 1 Motivation The **cellular automata** (CA) computation model is based on the
be resolved in a well defined deterministic or **random** way. 2 The Problem 2.1 Moving Objects Discrete
because write conflicts cannot occur. A large **number** of natural and artificial applications can be
www.isa.informatik.th-darmstadt.de/MP/Publikationen/ACRI98_paper.ps

Cellular Automata for Contour Dynamics - Eloranta (1995) (Correct)
4/1995 **Cellular automata** for contour dynamics Kari Eloranta
we restrict ourselves to rules exhibiting (pseudo) **random** contour dynamics (1]Some of the rules are
heavily relied on simulations. Through these a **number** of useful rules have emerged. But their
dopey.hut.fi/~kve/adc/physD3.ps.gz

Wave Propagation in Urban Microcells: a Massively Parallel .. - Luthi, Chopard, Wagen (Correct)
on a lattice. This method is inspired by the **cellular automata** modeling techniques[6, 7] and allows
technique to simulate propagation phenomena in **random** media[11, 12] and is very appropriate to
of the future mobile communication systems. As the **number** of users increases, several base stations should
cui.unige.ch/PUBLIC/chopard/PARA95/TLM/tlm-no-fig.ps.gz

Chasing: A Mechanism for Resistance against Parasites in.. - Cronhjort, Blomberg (Correct)
performed calculations on two dimensional **cellular automata** models with cluster formation for various
equations) PDE) or by **cellular automata** (CA) with **random** rules. Basically, these two models can exhibit
lead to spatial patterns which appear for a large **number** of different applications [1, 2, 3, 4]They have
www.theophys.kth.se/~mic/alife5.ps

Astronomy And Astrophysics - Solar Flare (Correct)
Astronomy And Astrophysics Solar Flare **Cellular Automata** Interpreted As Discretized Mhd Equations
field on a spatial grid. They usually have a **random** loading function during their quiet evolution
systems, i.e. systems which consist of a large **number** of interacting subsystems. The essence of the CA
www.astro.auth.gr/Science-Subjects/Plasma/webpapers/aa3.ps

Some Statistical Analyses of Fitness Landscape Created by the.. - Imada, Araki (Correct)

traveling salesman problem [12]elementary **cellular automata** [13]and of Kauffman's M-K model [14]
in this paper, when synaptic weights are selected **random**ly, can be considered as the memory is a dynamical system which has a **number** of stable states with a domain of attraction
fukuda.aist-nara.ac.jp/~akira-i/itc-cscc-98.ps

Neural Computation Methods And Applications - Summary Talk of the.. - Horn (Correct)
BP backpropagation GA genetic algorithm CA **cellular automata** SA simulated annealing FL fuzzy logic
Sa 48 Ca Ga Density Calssification Applied To **Random Number** Generation 49 Nn Feedback Is Important In
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Crystalline Computation - Ti On (Correct)
whether crystalline arrays of logic called **Cellular Automata** (CA) might be able to simulate our known
to design, control, build and test than a more **random**ly structured machine. The prospect of efficient
ordinary computer takes an exponentially greater **number** of bits than the **number** of spins. This would make
psoup.math.wisc.edu/papers/margolus.ps.gz

A GA-based approach to solve simultaneous linear.. -.. (Correct)
the pioneering work by Von Neumann [1] on **cellular automata**) and mechanical systems [2]the concept
that is the cross-over of both this is done by **random**ly choosing a position in the vector (its i th
to any system of equations. We start from a given **number** of unkowns N and equations M as in, a 11 x 1
www.labs.bt.com/projects/ftg/docs/ps/ga3.ps.gz

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Detc98/mech-5840 - Evolutionary Techniques (Correct)
geometric (Hubbard and Antonsson, 1994) and **cellular automata** (Hubbard and Antonsson, 1997) methods. The
mask-layouts using a genetic algorithm. An initial **random** population of geometrically valid mask-layouts
lengths. The size of each string is equal to the **number** of polygon sides. Two elements from each string
design.caltech.edu/Research/MEMS/Papers/98d_ga.ps.gz

Garden of Eden states in traffic models - Schadschneider, Schreckenberg (1993) (Correct)
The description of traffic flow using **cellular automata** (CA) is quite successful [1]despite the
Garden of Eden (GoE) states do not exist for **random**-sequential dynamics and are responsible for the
v j (t 1) cells. Here d j (t) denotes the **number** of empty cells in front of car j ,i.e. the gap
traffic.comphys.uni-duisburg.de/paper/goe.ps.gz

The CEPRA-1X Cellular Processor - Hochberger, Hoffmann, Völkmann.. (1996) (Correct)
hardware supported computation based on the **cellular automata** model. This model is simple and massively
of 3. FPGA Rule Line Shifter Global Parameter **Random** Generator FIFO-out FIFO-in Figure 3: The line
and reaction/diffusion systems[9]2. The low **number** of local connections allows an efficient hardware
www.isa.informatik.th-darmstadt.de/MP/Publikationen/cepra1x.ps

Unknown - Moves To (Correct)
20 Turbulent Pattern Bases for **Cellular Automata** Figure 9(d) shows a slower rate of
we note that the expected form for an ideal **random** walk is oe(t) Dt 1=2 with D constant. For
plume volume L t)This is the total **number** of walls in the interface, given by the sum over
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Design of Collective Computation in **Cellular Automata** James P. Crutchfield y Santa Fe
computer architectures with central control, **random** access memory, and insect societies consist of
features of systems in nature listed above: large **numbers** of homogeneous components (simple finite state

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Searching for Chaos in Cellular Automata: New Tools for.. - Flocchini And (1994) (Correct)
Searching for Chaos in **Cellular Automata**: New Tools for Classification P. Flocchini fixed-point attraction, periodicity, seemingly **random** orbits. Otherwise, since the system is transfinite iterations. The class of ordinal **numbers** (denoted O) is well ordered by the classical .
ftp.info.ucl.ac.be/pub/publi/94/gf_cs94_1.ps.Z

Local Structure Theory: Calculation on hexagonal arrays.. - Gutowitz, Victor (1987) (Correct)
theory calculations 7 to the study of **cellular automata** on the two-dimensional hexagonal lattice. A
from application of rules of the form (xy22) to a **random**, 50Three of the rules result in limit regular lattice of cells, each with a finite **number** of states. An interaction rule specifies the
ftp.santafe.edu/pub/hag/hex.ps

An Improved Cellular Automaton Model for Traffic Flow Simulation - Emmerich, Rank (Correct)
An Improved **Cellular** Automaton Model for Traffic Flow Simulation H.
itp.nat.uni-magdeburg.de/~hemmeric/forschung/papers/implicit.ps.gz

On the Amount of Randomness Needed in Distributed Computations - Codenotti Gemmell (Correct)
processors. Although this model, inspired by **cellular automata**, is not very realistic for distributed
On the amount of **random**ness needed in distributed computations B.
Simon x November 12, 1996 Abstract We treat the **number** of **random** bits as a computational resource in
www.cs.uchicago.edu/~simon/DistRand.ps

Biological Metaphors for Evolving Artificial Cognitive Systems - Biondi, Michel, Clergue (1995) (Correct)
currently several research areas. While **cellular automata** theory appears to be a promising
order to prevent from loosing the best individual, **random** binary mutations, crossing-over, and a **number** of
is extensively exploited through the use of a **number** of biologically inspired models. Dynamical Neural
lamiftp.epfl.ch/pub/michel/publications/Namur95.ps.gz

Dynamics, Computation, and the "Edge of Chaos": A.. - Mitchell, Crutchfield.. (Correct)
behavior and computational capability in **cellular automata** (CAs)We present results from an
between the difficulty of prediction and dynamical **random**ness is simply summarized by the statement that
considering intrinsic computational structure, a **number** of "engineering" suggestions have

been made that
www.santafe.edu/~evca/DynCompEdge.ps

On Problems Related To Growth, Entropy And Spectrum In Group .. - Rostislav Grigorchuk (1997) (Correct)
theory, ffl [Gk8] and [MaM] for automata and **cellular automata** theory, ffl [VSC] for **random** walks, ffl
ergodic theory, ffl [Gk8] and [MaM] for automata and **cellular automata** theory, ffl [VSC] for **random**
growth series, G) spectral radius of simple **random** walks on Cayley graphs. From the modern point of
www.unige.ch/math/biblio/preprint/1997/pise.ps

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Neural Networks, IEEE Transactions on , Volume: 8 , Issue: 6 , Nov. 1997
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